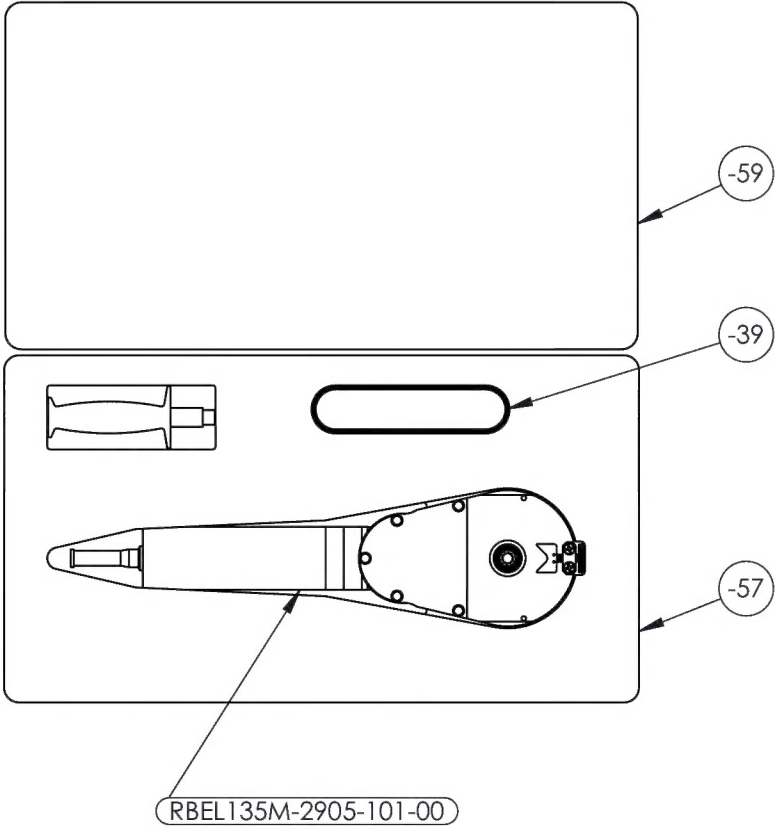


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		CHANGED MOTORS FROM FLEX #L3309FR TO MILWAUKEE #6116-33, ALSO CHANGED PULLEY SIZE TO ADJUST FOR THE 1,000 RPM DIFFERENCE. DRIVER PULLY -09 WAS Ø1.495 NOW Ø1.603, AND DRIVEN 07 WAS Ø4.173 NOW Ø4.065. ALSO -07 Ø3.671 [x2] IS NOW Ø3.779 [x2].	5/12/2010	WP	DW
2		CHANGED -13 MOTOR CLAMP TO FIT NEW MOTOR & MOVED -01 CASE M6 HOLE UP .071 FROM B.C. Ø3.206. ALSO REPLACED [3] -33 HEX HEAD CAP SCREW WITH -54 SOCKET HEAD CAP SCREW.	9/14/2010	WP	DW
2A		ADDED OPTIONAL 2 UNIT KIT WITH HARD CASE, AND CHANGED FROM 5 PAGES TO 8.	9/16/2010	WP	
3		ADDED COMPARTMENT FOR HANDLES TO -101-43 PER D.W.	12/10/2010	RJC	RW
4		CH'D -25 QTY. FROM 1 TO 2, LABELED -01 SECTION C-C, CH'D -05 COUNTERSINK FROM Ø.276 TO Ø.310, CH'D -07 Ø17mm TO Ø.6688 +.0005 -.0000, ADDED -07 [.414] DIM., CH'D -13 CUT REF. DIM. FROM .08 & .076 TO .093. ALL CHANGES PER G.E.	12/29/2010	RJC	RW
5		ADDED -00 ASSY. 2 EA. TO BOM, DOUBLED ALL BUYOUT QUANTITTIES, DELETED RBEL135M2905-101-B. CH'D -05 DIM. FROM Ø.267 P.F. -.23 TO LIMIT DIM. .2666 - .2660, ADDED -11 & -07 NICKLE PLATE THICKNESS .0004 - .0006, ADDED -19 NICKLE PLATE THICKNESS .0004 - .0006, CH'D -19 DIM. FROM .392 S.F. -.21 TO LIMIT .3914 - .3905, ADDED -21 NICKLE PLATE THICKNESS .0004 - .0006, CH'D -21 DIM. FROM .393. S.F. -.19 TO LIMIT DIM. .3944 - .3930. CH'D -23 DIM. FROM BASIC .267 TO Ø.2674 - .2670.	12/20/2012	RJC	SE
5A		-05 DELETED Ø3.149. SEPERATED PARTS ONTO INDIVIDUAL PAGES.	2/26/2013	BIM	GE
6		ADDED PARTS -14 & -42 FOR USE WITH GRINDER MODEL MILWAUKEE #6117-33. ADDED NOTES 3 & 4 SHEET 1. ADDED NOTES 1 & 2 SHEET 2. REDRAWN WAS AUTO CAD IS SOLIDWORKS.	7/29/2013	CFS	DW
7		CH'D P/N WAS RBEL135M2905-101 IS RBEL135M-2905-101. -21 CH'D CORNER WAS NO RADIUS IS 2X R.13.	10/9/2013	CFS	GE
8		-17 CH'D DIMENSION WAS SØ .46 IS SØ .50, -17 CH'D DIMENSION WAS 1.181 IS 1.18.	6/16/2014	DJN	GE
9	16-0222	DELETED NOTES 3, 4, & 5 SHEET 1. DELETED NOTES 1 & 2 SHEET 2. CH'D HYDRAULIC PUMP DRIVE TOOL ASSY. TO -00 & CH'D QTY WAS 2 IS 1. -01 CH'D DIM WAS 2X Ø30mm ∇ .276 P.F. -.27 IS 2X Ø1.180/1.179 ∇ .279 [P.F. -.27], ADDED THREAD FIT, -03 CH'D DIM WAS (.125) IS .13. WAS (2X 13°) IS 2X 13°. -05 CH'D DIM WAS Ø.2666/.2660 IS Ø.2666/.2660 [P.F. -.23], -07 , -19 , -21 CH'D MATERIAL WAS 1018 IS 1018/1020 CR. -07 , -11 , -19 , -21 CH'D FINISH WAS NICKEL PLATE IS ZINC PLATE ASTM B633 TYPE 1 SC2. -11 CH'D DIM WAS .276 IS 2X .276, WAS 2X Ø.250 THRU ALL ∇ Ø.482 X 90° IS 2X Ø.25 THRU ALL ∇ Ø.48 X 90°, CH'D MATERIAL WAS 1018 IS A36/1018/1020 HR. -13 CH'D DIM WAS .09 CUT RELIEF IS .09 TWO INSTANCES. -14 CH'D DIM WAS .09 CUT REF. IS .09, DELETED NOTE 1. -15 CH'D DIM WAS 2X Ø.0786/.0782 THRU IS 2X Ø.0786/.0782 THRU ALL [P.F. -.53], -17 CH'D DIM WAS M8X1.25 IS (M8X1.25). -19 CH'D DIM WAS .195 IS 3X .165. -21 CH'D DIM WAS .276 IS 2X .276, DELETED DIM Ø.217, ADDED DIM .217, 2X FULL R. -23 CH'D DIM WAS Ø.2674/.2670 IS Ø.2674/.2670 [P.F. -.05]. -39 CH'D ASSY QTY. WAS 2 IS 1 ADDED QTY. 1 FOR SPARE. -41 DELETED. -43 CH'D B/O P/N WAS MILWAUKEE #6116-33 IS MILWAUKEE #6117-33. -57 CH'D FOAM SIZE FOR NEW CASE #APP-1605-E, AND LAYOUT CONFIGURATION FOR ONE -00 HYDRAULIC PUMP DRIVE TOOL. -59 CH'D FOAM SIZE FOR NEW CASE #APP-1605-E. -61 RB41009 IS RB41011. -45 , -57 , -59 CH'D DWG TO SHEET METAL TOLERANCE.	11/23/2016	RJC	SM

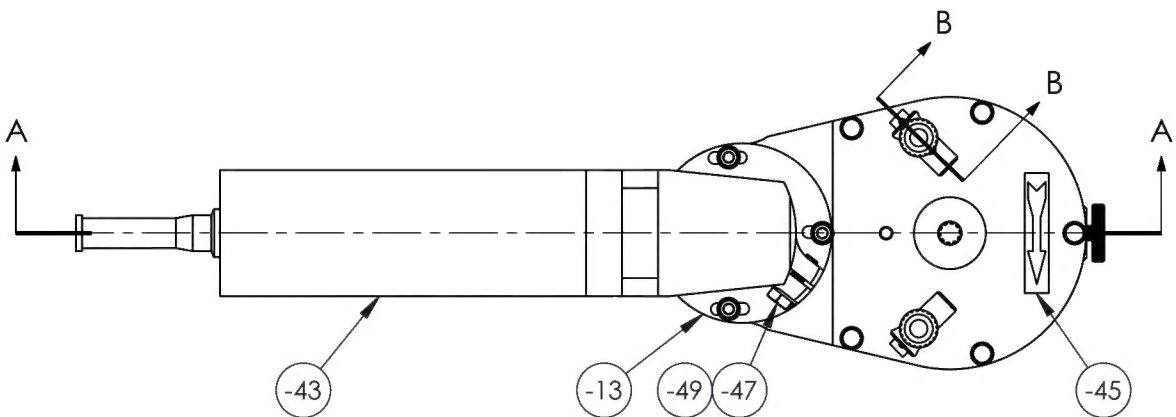
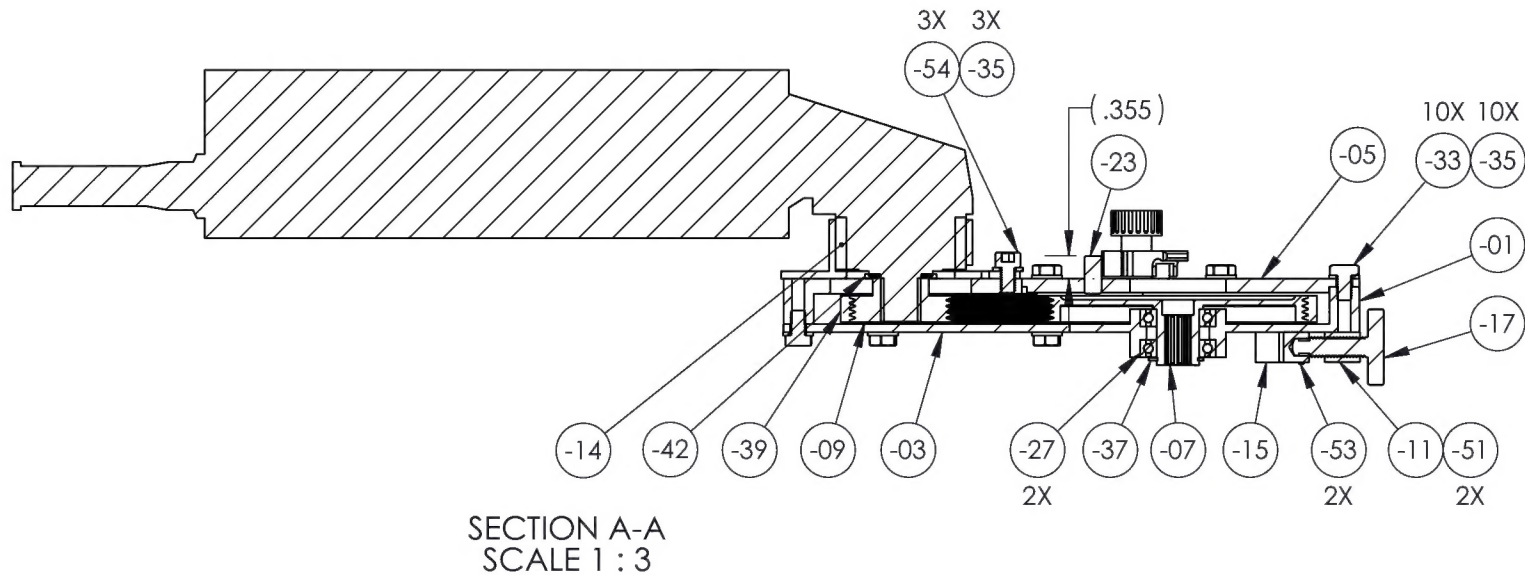
ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
	X		-00	1	HYDRAULIC PUMP DRIVE TOOL			2
	1		-01		CASE	6061		3
	1		-03		BOTTOM COVER	6061		4
	1		-05		TOP COVER	6061		5
	1		-07		GEARED PULLEY	1018/1020 CR		6
	1		-09		DRIVE PULLEY	6061		7
	1		-11		CLAMP TOP	A36/1018/1020 HR		8
	1		-13		MOTOR CLAMP	6061		9
	1		-14		COLLAR	6061		10
	1		-15		CLAMP	6061		11
	1		-17		THUMB SCREW	S.S.	M8 X 1.25 X 30mm (J.W. WINCO #8N30F48S) MODIFIED	12
	2		-19		SLIDE GUIDE	1018/1020 CR		13
	2		-21		SLIDE	1018/1020 CR		14
	1		-23		PIN	303/304		15
	2	B/O	-25		THREADED KNOB		M5 X .08 X 16mm (J.W. WINCO #5N16DD1)	2
	2	B/O	-27		BEARING		6903RU (MCMaster-CARR #5972K289)	2
	2	B/O	-29		FLAT HEAD MACHINE SCREW	STEEL	M4 X 0.7 X 10mm (MCMaster-CARR #91420A220)	2
	2	B/O	-31		FLAT HEAD MACHINE SCREW	STEEL	M4 X 0.7 X 8mm (MCMaster-CARR #91420A218)	2
	10	B/O	-33		HEX HEAD CAP SCREW	STEEL	M6 X 1 X 10mm (MCMaster-CARR #91280A322)	2
	13	B/O	-35		FLAT WASHER	STEEL	Ø6mm (MCMaster-CARR #91166A250)	2
	1	B/O	-37		EXTERNAL SNAP RING	S.S.	Ø17mm (SHAFT) (MCMaster-CARR #90967A210)	2
	1	B/O	-39	1	POLY-V GROOVE BELT	NEOPRENE	180J4 (MCMaster-CARR #9003K41)	2
	1	B/O	-42		FLAT WASHER	STEEL	Ø5/8 X .063 thick (AIRCRAFT SPRUCE #AN960-1016)	2
	1	B/O	-43		SMALL ANGLE GRINDER MOTOR		MILWAUKEE #6117-33	2
	1	B/O	-45		ARROW EMBLEM	VINYL	1/16 X 1/2 X 2-1/2 (SIGNS NOW)	16
	1	B/O	-47		HEX HEAD CAP SCREW	STEEL	M8 X 1.25 X 25mm (MCMaster-CARR #91280A534)	2
	1	B/O	-49		FLAT WASHER	STEEL	Ø8mm (MCMaster-CARR #91166A270)	2
	2	B/O	-51		FLAT HEAD MACHINE SCREW	STEEL	M6 X 1 X 25mm (MCMaster-CARR #91420A430)	2
	2	B/O	-53		DOWEL PIN	S.S.	Ø2mm X 12mm (MCMaster-CARR #91585A010)	2
	3	B/O	-54		SOCKET HEAD CAP SCREW	S.S.	M6 X 1 X 10mm (MCMaster-CARR #91292A441)	2
		B/O	-55	1	CASE	PLASTIC	PELICAN #APP-1605-E	N/S
		B/O	-57	1	BOTTOM TOOL CUSHION	ETHAFOAM 220, BLACK	6.39 X 14.45 X 26.45 (CASE SOLUTIONS)	17
		B/O	-59	1	TOP FOAM	ETHAFOAM 220, BLACK	2.01 X 14.52 X 26.35 (CASE SOLUTIONS)	18
		B/O		1	DART PLACARD	ALUMINUM	RB41011	N/S
	ASSY -00							



- NOTES:
1. RBEL135M-2905-101 REPLACES EUROCOPTER TOOL NO. L135M2905-101.
 2. OPTIONAL HARD CASE WITH 2 HYDRAULIC PUMP DRIVE TOOLS CAN BE PURCHASED SEPERATELY, RBEL135M-2905-101-M.

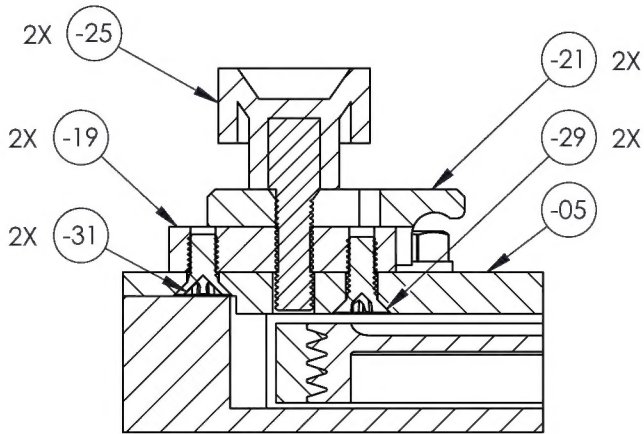
TITLE HYDRAULIC PUMP DRIVE TOOL			
DWG NO. RBEL135M-2905-101			REV 9
MAT'L HEAT TREAT FINISH SPEC		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ±.5° .X ± .1 SURFACES = 125°✓	
DRAWN BY: CLOUGH		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: DUERFELDT		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: ANDERSON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: LINDSAY		USED ON MODEL	
APPROVED: MACKOVJAK			
SCALE 1:8	DATE 11/28/2016	SHEET 1 OF 18	

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HYDRAULIC PUMP DRIVE TOOL

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		CHANGED MOTORS FROM FLEX #L3309FR TO MILWAUKEE #6116-33, ALSO CHANGED PULLEY SIZE TO ADJUST FOR THE 1,000 RPM DIFFERENCE. DRIVER PULLY -09 WAS Ø1.495 NOW Ø1.603, AND DRIVEN 07 WAS Ø4.173 NOW Ø4.065. ALSO -07 Ø3.671 (x2) IS NOW Ø3.779 (x2).	5/12/2010	WP	DW
2		CHANGED -13 MOTOR CLAMP TO FIT NEW MOTOR & MOVED -01 CASE M6 HOLE UP .071 FROM B.C. Ø3.206. ALSO REPLACED (3) -33 HEX HEAD CAP SCREW WITH -54 SOCKET HEAD CAP SCREW.	9/14/2010	WP	DW
2A		ADDED OPTIONAL 2 UNIT KIT WITH HARD CASE, AND CHANGED FROM 5 PAGES TO 8.	9/16/2010	WP	
3		ADDED COMPARTMENT FOR HANDLES TO -101-43 PER D.W.	12/10/2010	RJC	RW
4		CH'D -25 QTY. FROM 1 TO 2, LABELED -01 SECTION C-C, CH'D -05 COUNTERSINK FROM Ø.276 TO Ø.310, CH'D -07 Ø17mm TO Ø.6688 +.0005 -.0000, ADDED -07 (.414) DIM., CH'D -13 CUT REF. DIM. FROM .08 & .076 TO .093. ALL CHANGES PER G.E.	12/29/2010	RJC	RW
5		ADDED -00 ASSY. 2 EA. TO BOM, DOUBLED ALL BUYOUT QUANTITIES, DELETED RBEL135M2905-101-B. CH'D -05 DIM. FROM Ø.267 P.F. -23 TO LIMIT DIM. .2666 - .2660, ADDED -11 & -07 NICKLE PLATE THICKNESS .0004 - .0006, ADDED -19 NICKLE PLATE THICKNESS .0004 - .0006, CH'D -19 DIM. FROM .392 S.F. -21 TO LIMIT .3914 - .3905, ADDED -21 NICKLE PLATE THICKNESS .0004 - .0006, CH'D -21 DIM. FROM .393 S.F. -19 TO LIMIT DIM. .3944 - .3930. CH'D -23 DIM. FROM BASIC .267 TO Ø.2674 - .2670.	12/20/2012	RJC	SE
5A		-05 DELETED Ø3.149. SEPERATED PARTS ONTO INDIVIDUAL PAGES.	2/26/2013	BIM	GE
6		ADDED PARTS -14 & -42 FOR USE WITH GRINDER MODEL MILWAUKEE #6117-33. ADDED NOTES 3 & 4 SHEET 1. ADDED NOTES 1 & 2 SHEET 2. REDRAWN WAS AUTO CAD IS SOLIDWORKS.	7/29/2013	CFS	DW
7		CH'D P/N WAS RBEL135M2905-101 IS RBEL135M-2905-101. -21 CH'D CORNER WAS NO RADIUS IS 2X R.13.	10/9/20136	CFS	GE
8		-17 CH'D DIMENSION WAS SØ.46 IS SØ.50, -17 CH'D DIMENSION WAS 1.181 IS 1.18.	6/16/2014	DJN	GE
9	16-0222	DELETED NOTE 1 SHEET 2, CH'D HYDRAULIC PUMP DRIVE TOOL ASSY. TO -00 & CH'D QTY WAS 2 IS 1. -39 CH'D ASSY QTY. WAS 2 IS 1 ADDED QTY. 1 FOR SPARE. -41 DELETED, -43 CH'D B/O P/N WAS MILWAUKEE #6116-33 IS MILWAUKEE #6117-33. CH'D PLACARD WAS -61 RB41009 IS RB41011.	11/23/2016	RJC	SM



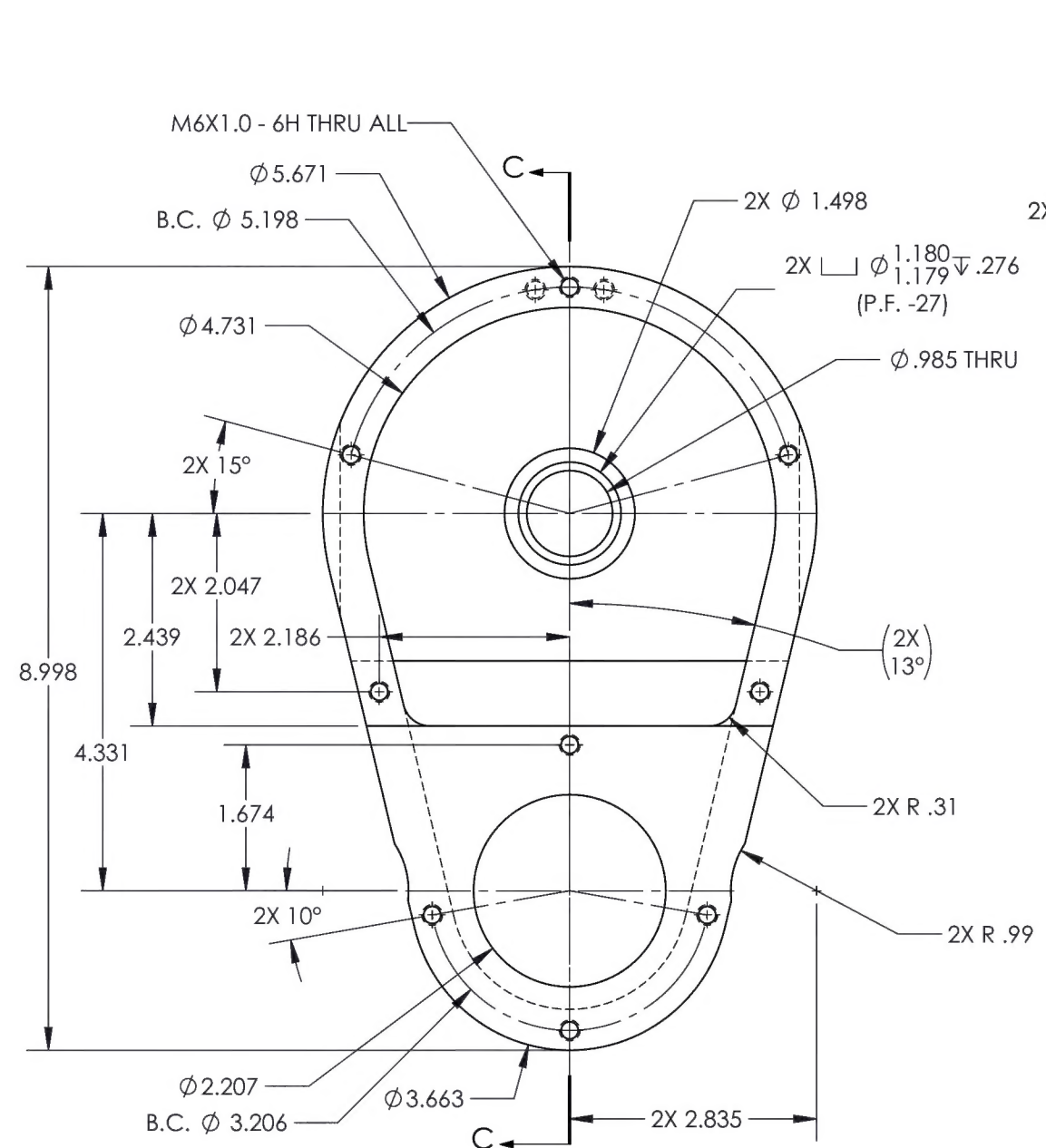
SECTION B-B
SCALE 1 : 1

NOTES:
2. -13, -14, & -42 USED WITH GRINDER:
MILWAUKEE #6117-33

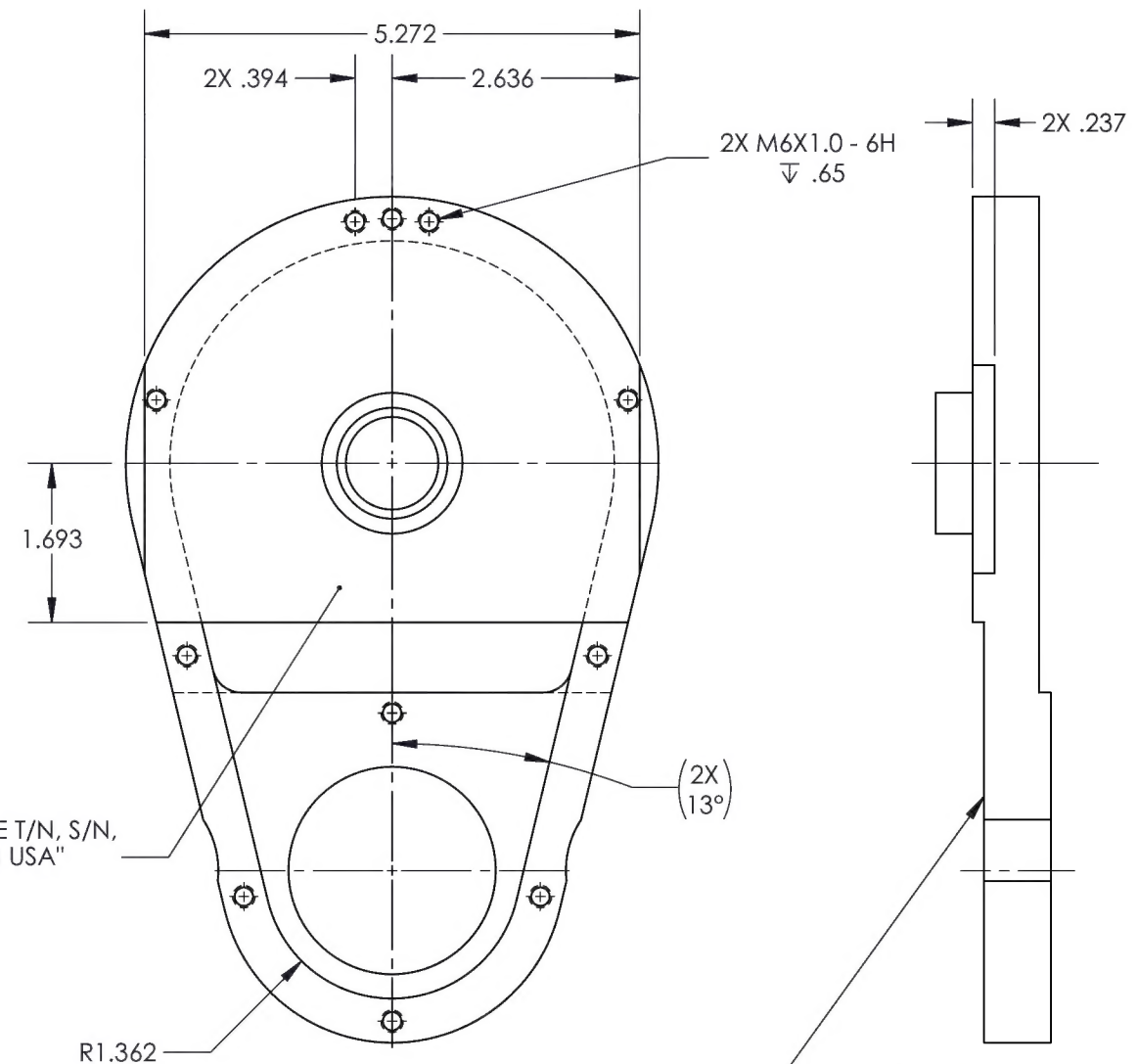
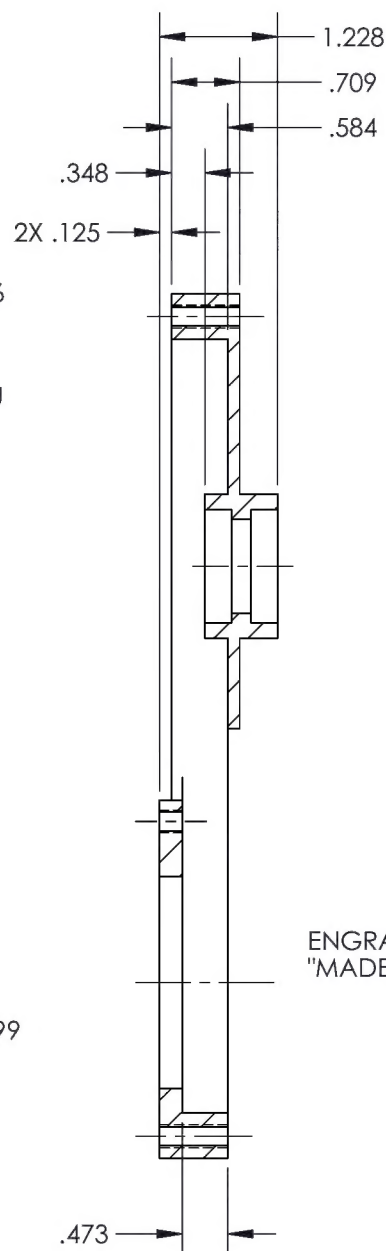
DART AEROSPACE		
TITLE HYDRAULIC PUMP DRIVE TOOL		
DWG NO. RBEL135M-2905-101-00	REV 9	
MAT'L HEAT TREAT FINISH SPEC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ±.5° .X ± .1 SURFACES = 125°✓	
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: LINDSAY	USED ON MODEL	
APPROVED: MACKOVJAK		
SCALE 1:4	DATE 4/23/2010	SHEET 2 OF 18

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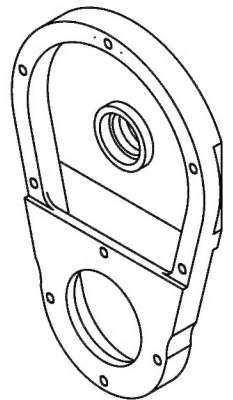
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-01 CASE M6 HOLE UP .071 FROM B.C. Ø3.206.	9/14/2010	WP	DW
4		-01 LABELED SECTION VIEW C-C.	12/29/2010	RJC	SM
9	16-0222	-01 CH'D DIM WAS 2X Ø30mm ∇ .276 P.F. -27 IS 2X Ø1.180/1.179 ∇ .279 [P.F. -27]. ADDED THREAD FIT.	11/23/2016	RJC	SM




SECTION C-C



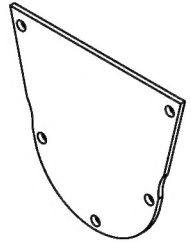
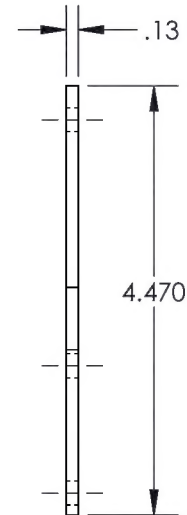
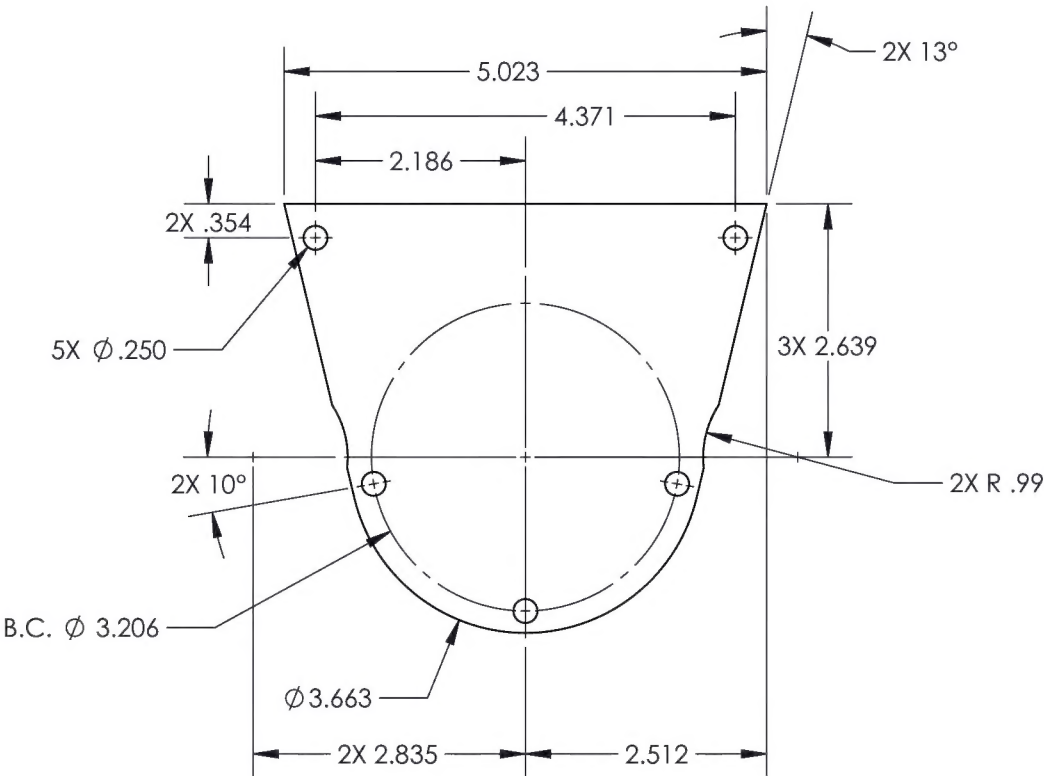
—HIDDEN LINES OMITTED FOR CLARITY.



		
TITLE <h1>HYDRAULIC PUMP DRIVE TOOL</h1>		
DWG NO. RBEL135M-2905-101-01	REV <div>9</div>	
MAT'L 6061 HEAT TREAT FINISH CLEAR ANODIZE SPEC MIL-A-8625F, TYPE II, CLASS I	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ±° .X ± .1 SURFACES = 125√	
DRAWN BY: PERRITT CHECKED: DUERFELDT QPS APPR: ANDERSON QA APPR: LINDSAY APPROVED: MACKOVJAK	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 USED ON MODEL EUROCOPTER EC135	
SCALE 1:2 DATE 4/23/2010	SHEET 3 OF 18	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
9	16-0222	-03 CH'D DIM WAS (.125) IS .13, WAS (2X 13°) IS 2X 13°.	11/23/2016	RJC	SM



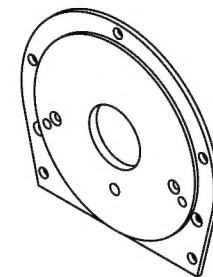
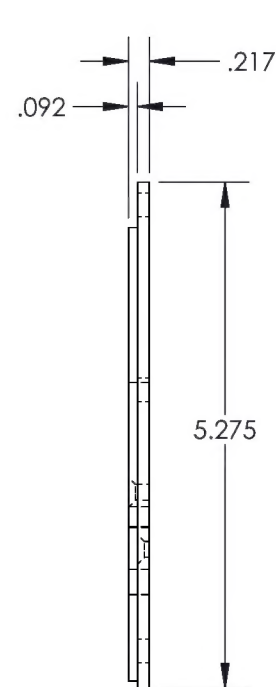
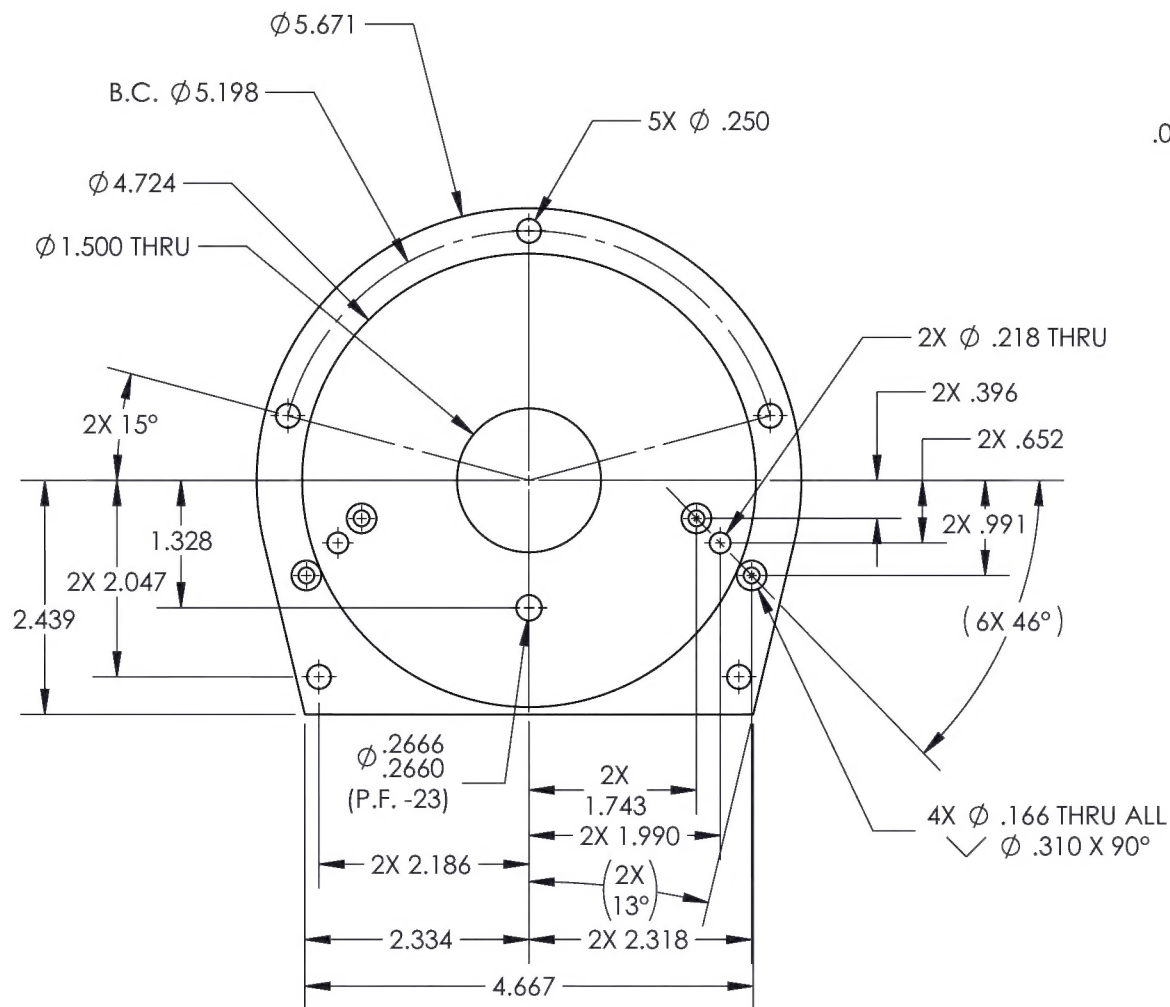
(-03)

BOTTOM COVER

DART AEROSPACE	
TITLE HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-03	REV 9
MAT'L 6061	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH CLEAR ANODIZE	.XXX ± .005 FRACTIONS ± 1/8
SPEC MIL-A-8625F, TYPE II, CLASS I	.XX ± .01 ANGLES ± 5°
DRAWN BY: PERRITT	.X ± .1 SURFACES = 125°
CHECKED: DUERFELDT	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: MACKOVJAK	AFTER PLATING
SCALE 1:2	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 4/23/2010	USED ON MODEL
SHEET 4 OF 18	EUROCOPTER EC135

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
4		-05 CH'D COUNTERSINK FROM Ø.276 TO Ø.310.	12/29/2010	RJC	RW
5		-05 CH'D DIM FROM Ø.267 P.F.	10/20/2012	RJC	SE
5A		-05 DELETED DIM Ø3.149.	2/26/2013	BIM	GE
9	16-0222	-05 CH'D DIM WAS Ø.2666/.2660 IS Ø.2666/.2660 (P.F. -23).	11/23/2016	RJC	SM

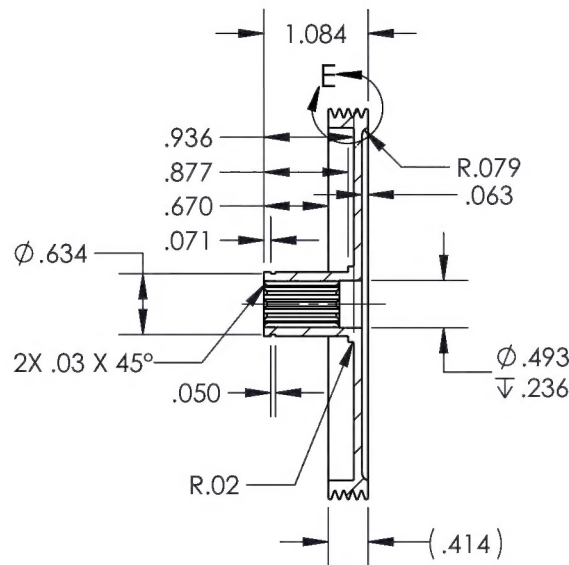
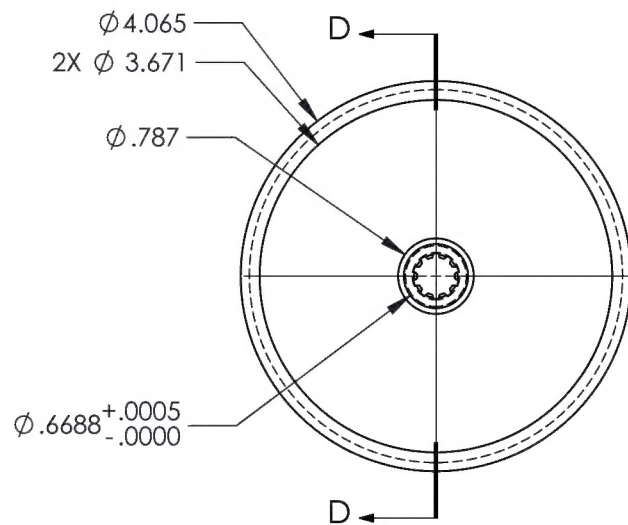


(-05)
TOP COVER

DART AEROSPACE	
TITLE HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-05	REV 9
MAT'L 6061	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH CLEAR ANODIZE	.XXX ± .005 FRACTIONS ± 1/8
SPEC MIL-A-8625F, TYPE II, CLASS I	.XX ± .01 ANGLES ± 5°
DRAWN BY: PERRITT	.X ± .1 SURFACES = 125
CHECKED: DUERFELDT	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: MACKOVJAK	AFTER PLATING
SCALE 1:2	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 4/23/2010	USED ON MODEL
SHEET 5 OF 18	EUROCOPTER EC135

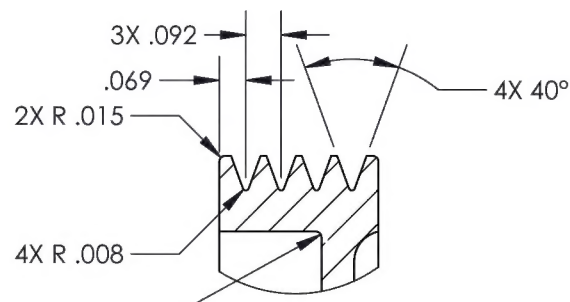
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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		CHANGED MOTORS FROM FLEX #13309FR TO MILWAUKEE #6116-33, ALSO CHANGED PULLEY SIZE TO ADJUST FOR THE 1,000 RPM DIFFERENCE. DRIVEN 07 WAS $\phi 4.173$ NOW $\phi 4.065$. ALSO -07 $\phi 3.671$ (x2) IS NOW $\phi 3.779$ (x2).	5/12/2010	WP	DW
4		CH'D -07 $\phi 17\text{mm}$ TO $\phi .6688 \pm .0005 - .0000$, ADDED -07 (.414) DIM. ALL CHANGES PER G.E.	12/29/2010	RJC	RW
5		ADDED -07 NICKLE PLATE THICKNESS .0004 - .0006.	12/20/2012	RJC	SE
9	16-0222	-07 CH'D MATERIAL WAS 1018 IS 1018/1020 CR, CH'D FINISH WAS NICKEL PLATE IS ZINC PLATE ASTM B633 TYPE 1 SC2.	11/23/2016	RJC	SM



SECTION D-D

SPUR GEAR DATA	
NO. OF TEETH	10
MOD	1.0
THREE TEETH	.303
PITCH DIA.	$\phi .428$
DIAMETRAL PITCH	7
PRESSURE ANGLE	30°
MAJOR DIAMETER	.480
MINOR DIAMETER	.395
CASTING OF	INTERNAL GEAR
GEAR STANDRAD	5480



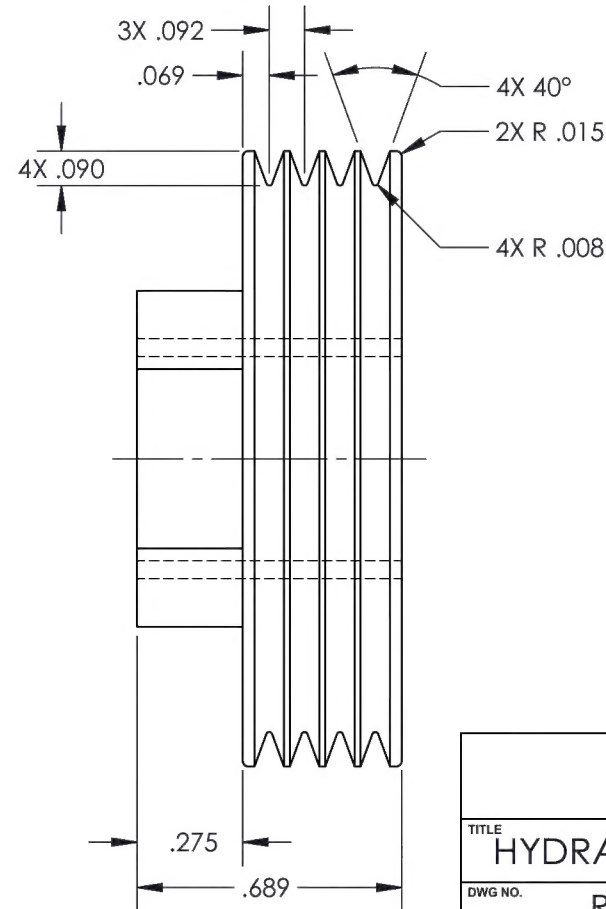
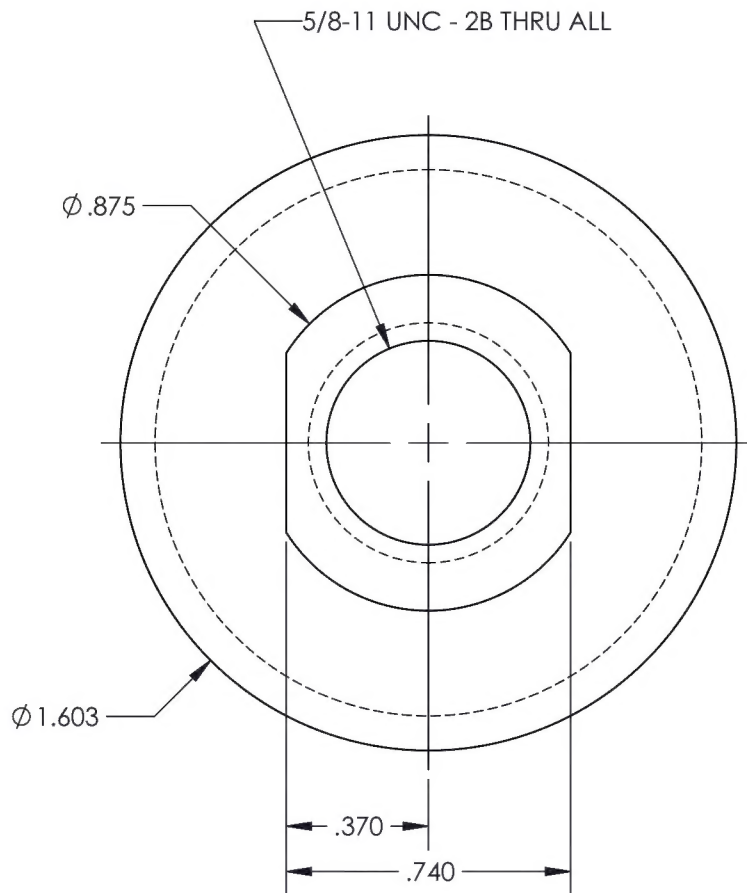
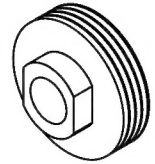
DETAIL E
SCALE 2 : 1

(-07)
GEARED PULLEY

DART AEROSPACE	
TITLE HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-07	REV 9
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT	.XXX ± .005 FRACTIONS ± 1/8
FINISH ZINC PLATE	.XX ± .01 ANGLES ± 5°
SPEC ASTM B633 TYPE 1 SC 2	.X ± .1 SURFACES = 125/✓
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: MACKOVJAK	EUROCOPTER EC135
SCALE 1:2	DATE 4/23/2010
SHEET 6 OF 18	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		CHANGED MOTORS FROM FLEX #L3309FR TO MILWAUKEE #6116-33, ALSO CHANGED PULLEY SIZE TO ADJUST FOR THE 1,000 RPM DIFFERENCE. DRIVER PULLEY -09 WAS $\phi 1.495$ NOW $\phi 1.603$.	5/12/2010	WP	DW



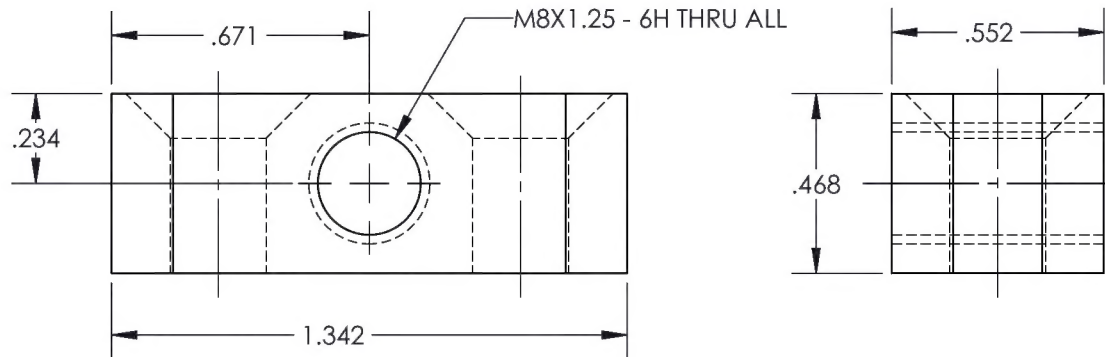
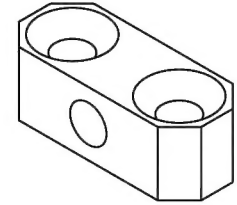
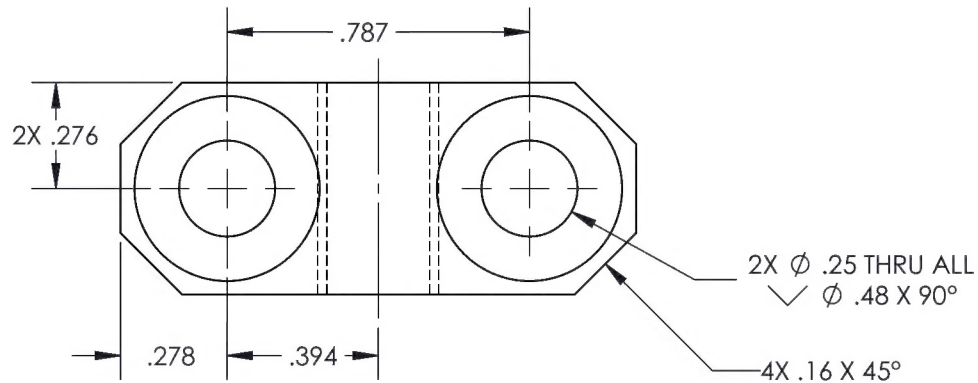
(-09)

DRIVE PULLEY

DART AEROSPACE	
TITLE HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-09	REV 9
MAT'L 6061	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH CLEAR ANODIZE	.XXX \pm .005 FRACTIONS \pm 1/8
SPEC MIL-A-8625F, TYPE II, CLASS I	.XX \pm .01 ANGLES \pm 5°
DRAWN BY: PERRITT	.X \pm .1 SURFACES = 125
CHECKED: DUERFELDT	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
SCALE 2:1	DATE 4/23/2010
SHEET 7 OF 18	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5		ADDED -.11 NICKLE PLATE THICKNESS .0004 - .0006.	12/20/2012	RJC	SE
9	16-0222	-.11 CH'D DIM WAS .276 IS 2X .276, WAS 2X Ø.250 THRU ALL $\sqrt{\text{V}}$ Ø.482 X 90° IS 2X Ø.25 THRU ALL $\sqrt{\text{V}}$ Ø.48 X 90°, CH'D MATERIAL WAS 1018 IS A36/1018/1020 HR, CH'D FINISH WAS NICKEL PLATE IS ZINC PLATE ASTM B633 TYPE 1 SC2.	11/23/2016	RJC	SM



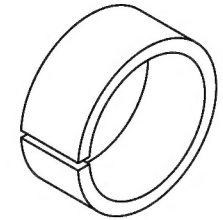
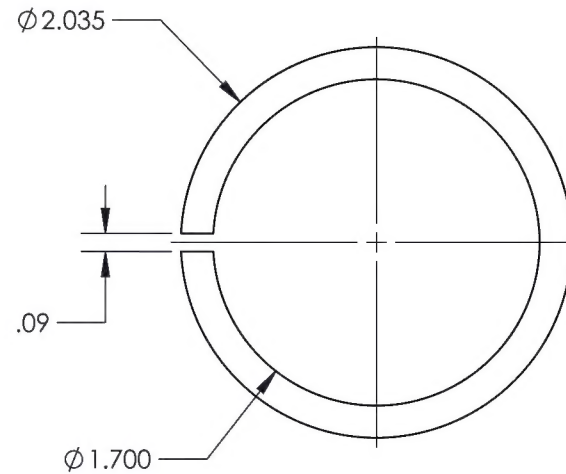
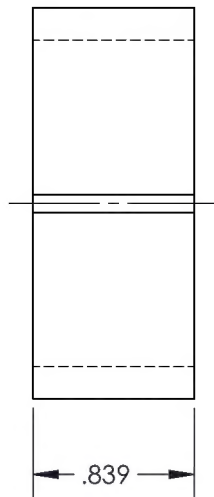
(-11)

CLAMP TOP

DART AEROSPACE	
TITLE HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-11	REV 9
MAT'L A36/1018/1020 HR	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT	.XXX ± .005 FRACTIONS ± 1/8
FINISH ZINC PLATE	.XX ± .01 ANGLES ± .5°
SPEC ASTM B633 TYPE 1 SC 2	.X ± .1 SURFACES = 125°
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: MACKOVJAK	EUROCOPTER EC135
SCALE 2:1	DATE 4/23/2010
SHEET 8 OF 18	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
6		ADDED PART -14 USED WITH GRINDER MODEL MILWAUKEE #6117-33.	7/29/2013	CFS	DW
9	16-0222	-14 CH'D DIM WAS .09 CUT REF. IS .09, DELETED NOTE 1.	11/23/2016	RJC	SM

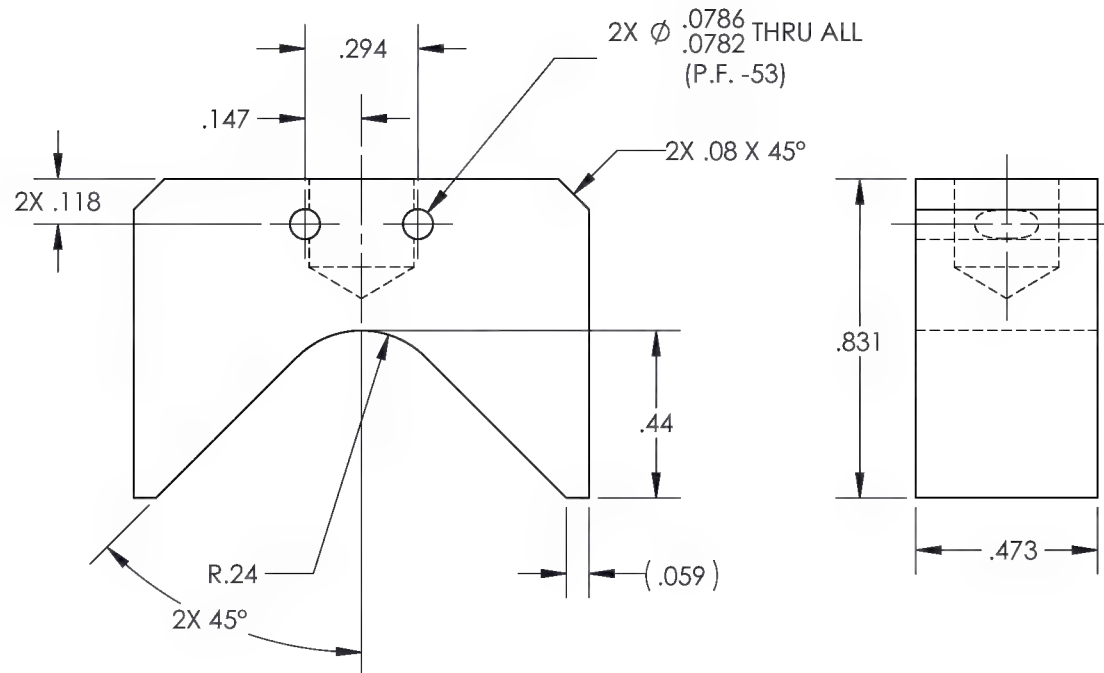
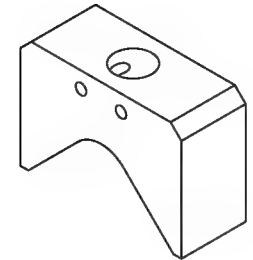
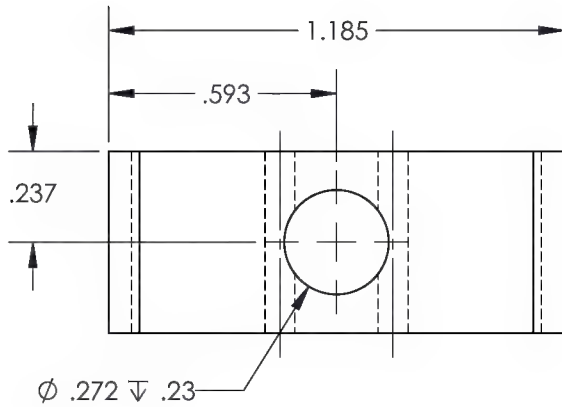


(-14)
COLLAR

DART AEROSPACE	
TITLE HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-14	REV 9
MAT'L 6061	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH CLEAR ANODIZE	.XXX ± .005 FRACTIONS ± 1/8
SPEC MIL-A-8625F, TYPE II, CLASS I	.XX ± .01 ANGLES ± 5°
	.X ± .1 SURFACES = 125°
DRAWN BY: SMITH	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:1	DATE 7/25/2013
	SHEET 10 OF 18

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
9	16-0222	-15 CH'D DIM WAS 2X Ø.0786/.0782 THRU IS 2X Ø.0786/.0782 THRU ALL (P.F. -53).	11/23/2016	RJC	SM

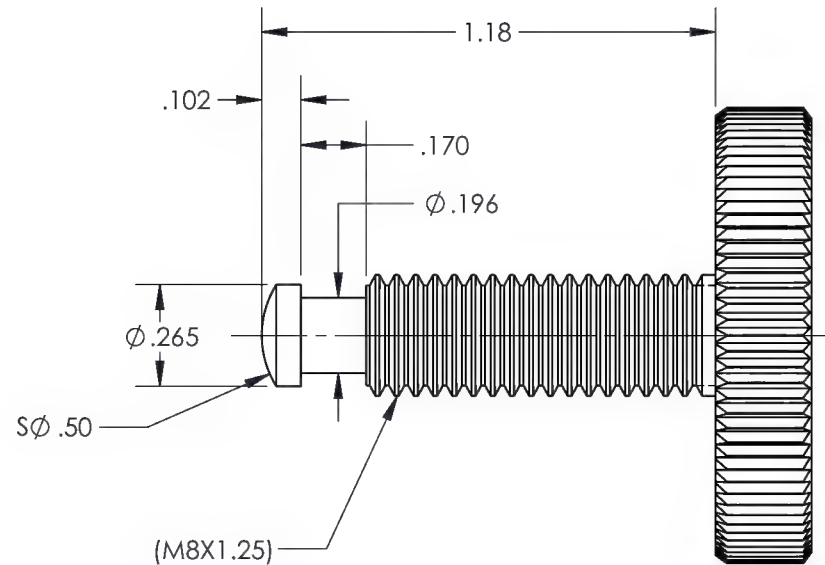
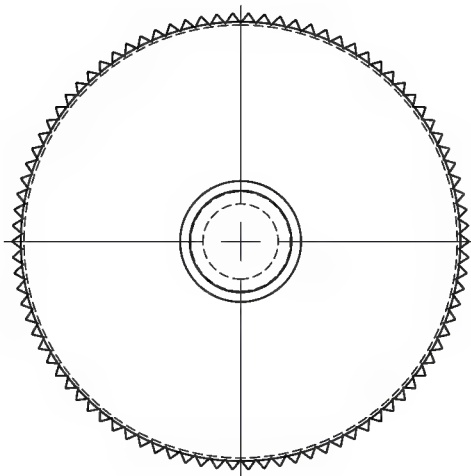


(-15)
CLAMP

DART AEROSPACE	
TITLE HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-15	REV 9
MAT'L 6061	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH CLEAR ANODIZE	.XXX ± .005 FRACTIONS ± 1/8
SPEC MIL-A-8625F, TYPE II, CLASS I	.XX ± .01 ANGLES ± .5°
DRAWN BY: PERRITT	.X ± .1 SURFACES = 125°
CHECKED: DUERFELDT	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
QA APPR: LINDSAY	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
APPROVED: MACKOVJAK	USED ON MODEL
SCALE 2:1	DATE 4/23/2010
SHEET 11 OF 18	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
8		-17 CH'D DIMENSION WAS SØ.46 IS SØ.50, CH'D DIMENSION WAS 1.181 IS 1.18.	6/16/2014	DJN	RJC
9	16-0222	-17 CH'D DIM WAS M8X1.25 IS (M8X1.25).	11/23/2016	RJC	SM



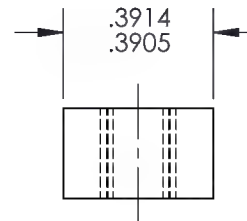
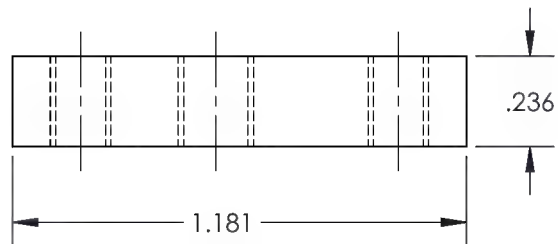
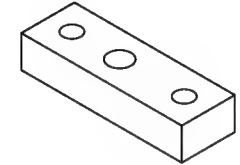
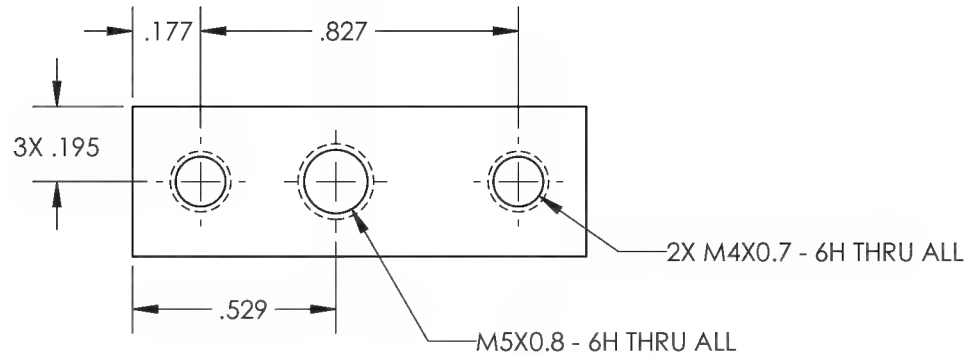
(-17)

THUMB SCREW

DART AEROSPACE	
TITLE HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-17	REV 9
MAT'L S.S.	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125°
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 2:1	DATE 4/23/2010
	SHEET 12 OF 18

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5		ADDED -19 NICKLE PLATE THICKNESS .0004 - .0006. CH'D -19 DIM. FROM .392 S.F. TO LIMIT DIM. .3944 - .3930.	12/20/2012	RJC	SE
9	16-0222	-19 CH'D DIM WAS .195 IS 3X .165. CH'D MATERIAL WAS 1018 IS 1018/1020 CR. CH'D FINISH WAS NICKEL PLATE IS ZINC PLATE ASTM B633 TYPE 1 SC2.	11/23/2016	RJC	SM



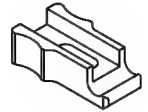
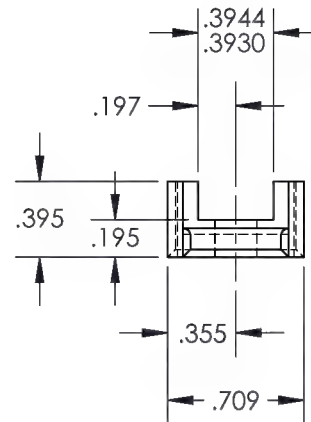
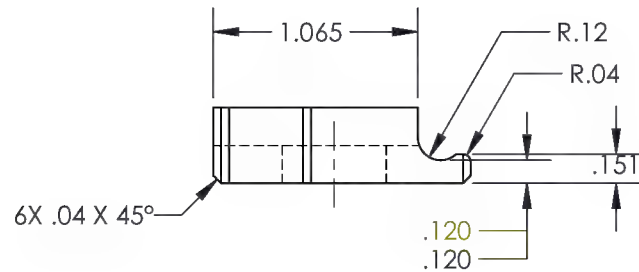
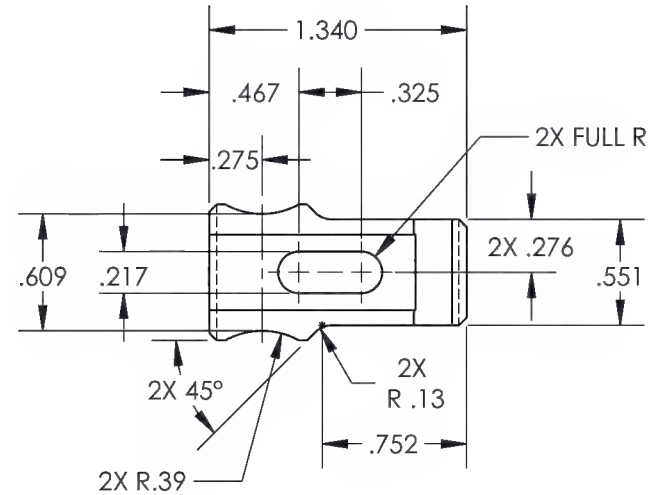
(-19)

SLIDE GUIDE

DART AEROSPACE	
TITLE HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-19	REV 9
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH ZINC PLATE	.XXX ± .005 FRACTIONS ± 1/8
SPEC ASTM B633 TYPE 1 SC 2	.XX ± .01 ANGLES ± 5°
DRAWN BY: PERRITT	.X ± .1 SURFACES = 125°
CHECKED: DUERFELDT	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: MACKOVJAK	AFTER PLATING
SCALE 2:1	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 4/23/2010	USED ON MODEL
SHEET 13 OF 18	EUROCOPTER EC135

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-21 TO LIMIT .3914 - .3905. ADDED -21 NICKLE PLATE THICKNESS .0004 - .0006. CH'D -21 DIM. FROM .393. S.F.	12/20/2012	RJC	SE
7		-21 CH'D CORNER WAS NO RADIUS IS 2X R.13.	10/9/2013	CFS	GE
9	16-0222	-21 CH'D DIM WAS .276 IS 2X .276. DELETED DIM Ø.217. ADDED DIM .217, 2X FULL R, CH'D MATERIAL WAS 1018 IS 1018/1020 CR. CH'D FINISH WAS NICKEL PLATE IS ZINC PLATE ASTM B633 TYPE 1 SC2.	11/23/2016	RJC	SM



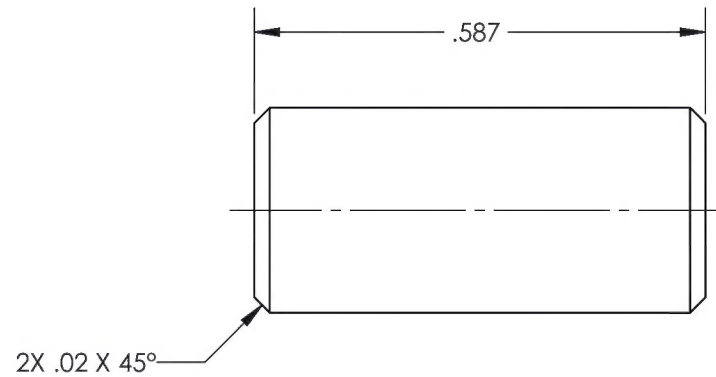
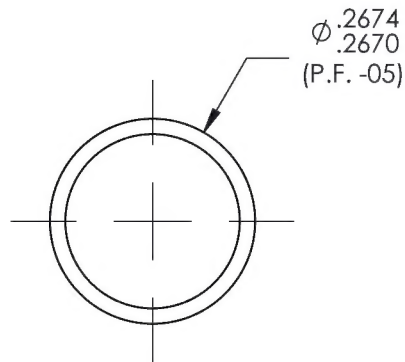
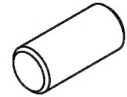
(21)

SLIDE

DART AEROSPACE	
TITLE HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-21	REV 9
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT	.XXX ± .005 FRACTIONS ± 1/8
FINISH ZINC PLATE	.XX ± .01 ANGLES ± 5°
SPEC ASTM B633 TYPE I SC 2	.X ± .1 SURFACES = 125° ✓
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: MACKOVJAK	EUROCOPTER EC135
SCALE 1:1	DATE 4/23/2010
SHEET 14 OF 18	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5		CH'D -23 DIM. FROM BASIC .267 TO ϕ .2674 - .2670.	12/20/2012	RJC	SE
9	16-0222	-23 CH'D DIM WAS ϕ .2674/.2670 IS ϕ .2674/.2670 (P.F. -05).	11/23/2016	RJC	SM



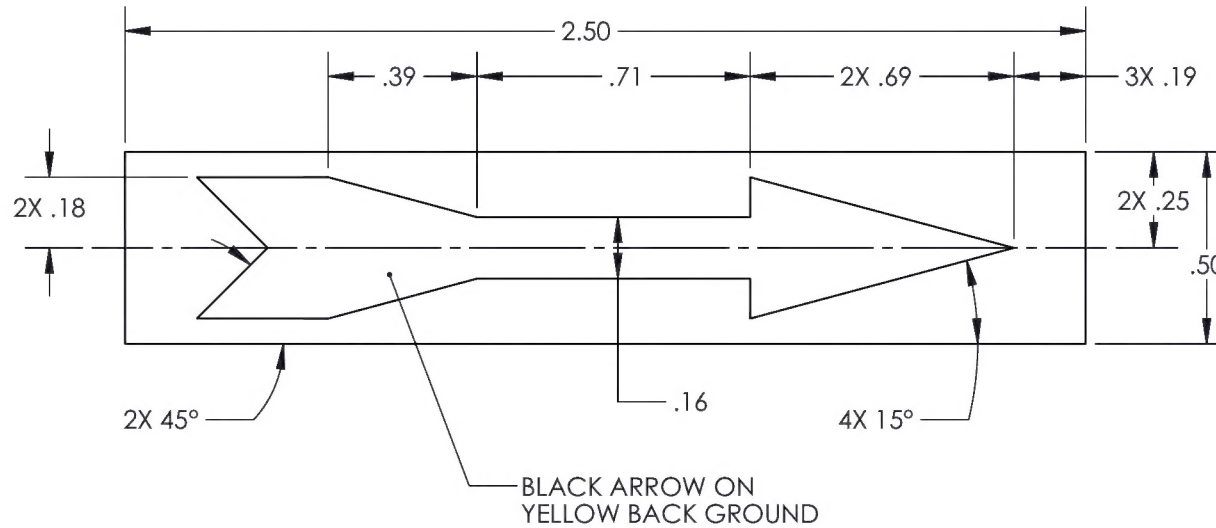
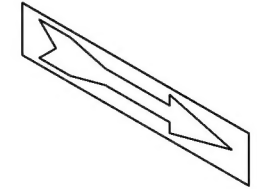
(-23)

PIN

DART AEROSPACE	
TITLE HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-23	REV 9
MAT'L 303/304	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX \pm .005 FRACTIONS \pm 1/8
SPEC	.XX \pm .01 ANGLES \pm .5°
	.X \pm .1 SURFACES = 125°
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
SCALE 4:1	ASME Y14.5M-2009
DATE 4/23/2010	USED ON MODEL
SHEET 15 OF 18	EUROCOPTER EC135

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
9	16-0222	-45 CH'D DWG TO SHEET METAL TOLERANCE.	11/23/2016	RJC	SM



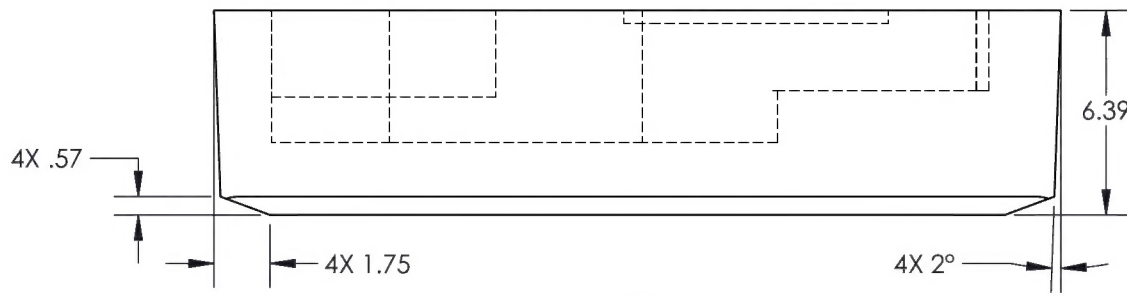
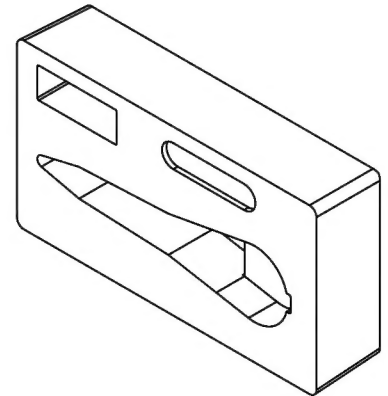
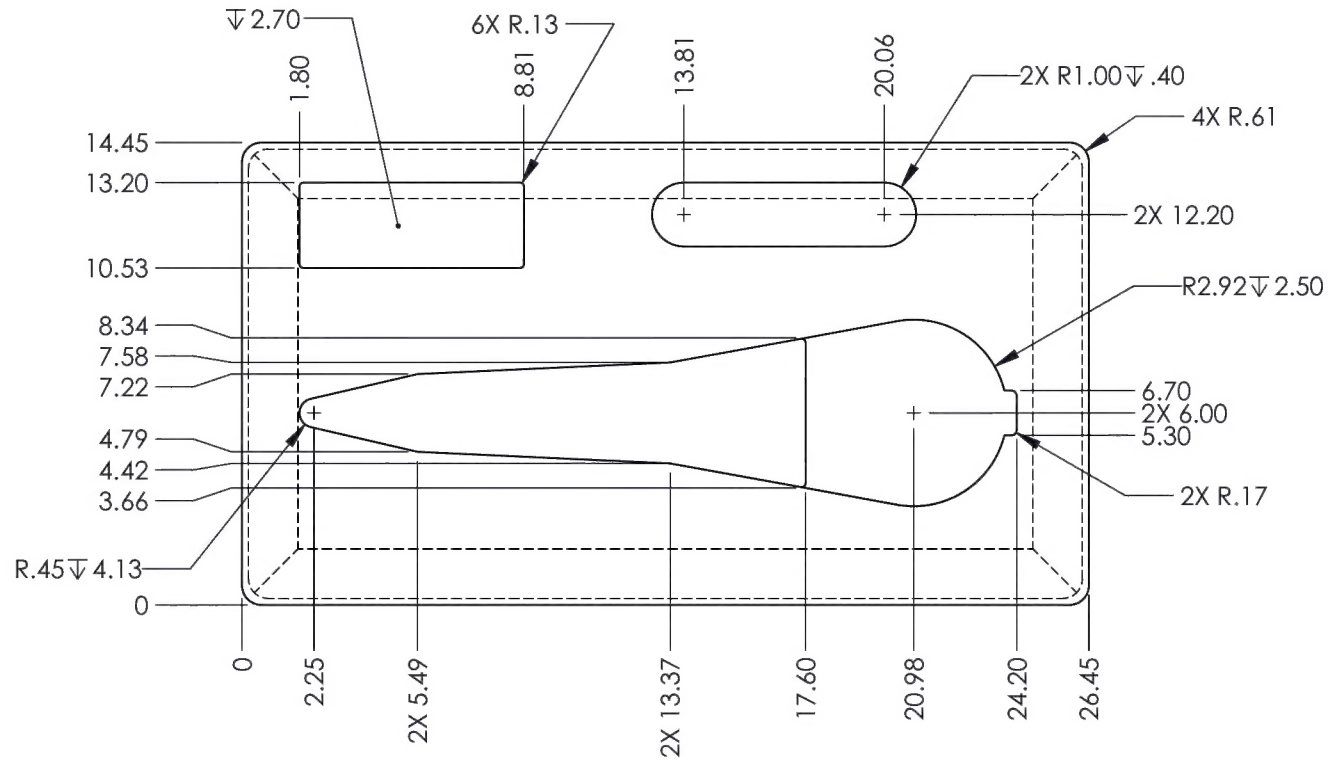
(-45)

ARROW EMBLEM

DART AEROSPACE	
TITLE HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-45	REV 9
MAT'L VINYL	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125°
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
SCALE 2:1	ASME Y14.5M-2009
DATE 4/23/2010	USED ON MODEL
SHEET 16 OF 18	EUROCOPTER EC135

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2A		ADDED OPTIONAL 2 UNIT KIT WITH HARD CASE, AND CHANGED FROM 5 PAGES TO 8.	9/16/2010	WP	
3		ADDED COMPARTMENT FOR HANDLES TO -101-B3 PER D.W.	12/10/2010	RJC	RW
9	16-0222	-57 CH'D FOAM SIZE FOR NEW CASE #APP-1605-E, FAND LAYOUT CONFIGURATION FOR ONE -00 HYDRAULIC PUMP DRIVE TOOL, CH'D DWG TO SHEET METAL TOLERANCE.	11/23/2016	RJC	SM



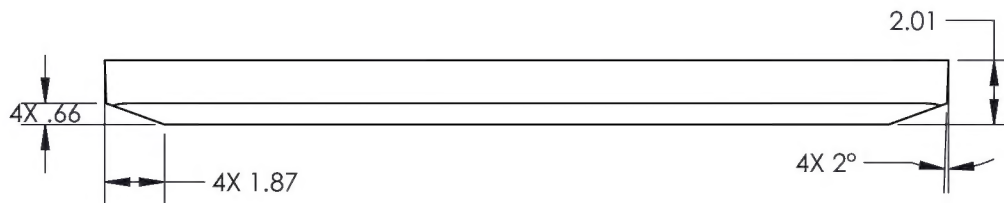
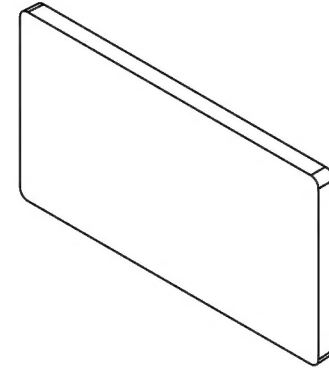
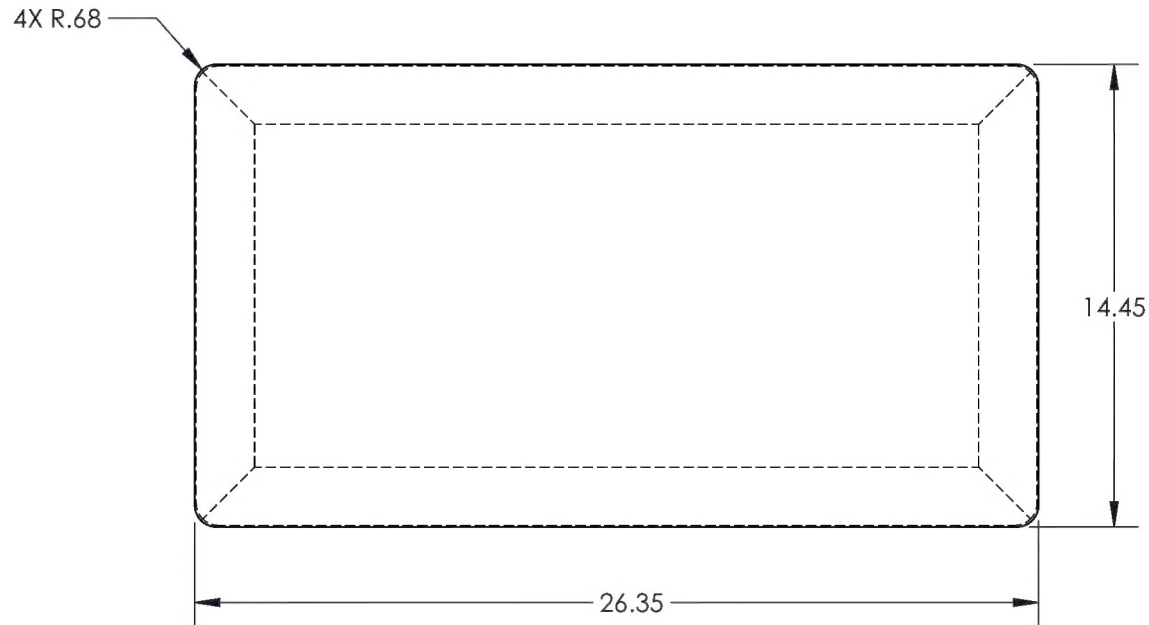
(-57)

BOTTOM TOOL CUSHION

DART AEROSPACE	
TITLE HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-57	REV 9
MAT'L ETHAFOAM 220, BLACK REAT TREAT FINISH SPEC UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125 ✓ 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: CLOUGH	
CHECKED: DUERFELDT	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: MACKOVJAK	USED ON MODEL EC135
SCALE 1:6	DATE 11/23/2016
SHEET 17 OF 18	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
9	16-0222	-59 CH'D FOAM SIZE FOR NEW CASE #APP-1605-E, CH'D DWG TO SHEET METAL TOLERANCE.	11/23/2106	RJC	SM



(-59)
TOP FOAM

DART AEROSPACE	
TITLE HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-59	REV 9
MAT'L ETHAFOAM 220, BLACK TREAT FINISH SPEC	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: CLOUGH CHECKED: DUERFELDT OPPTS APPR: ANDERSON QA APPR: LINDSAY APPROVED: MACKOVJAK	
USED ON MODEL EC135	
SCALE 1:6	DATE 11/28/2016
SHEET 18 OF 18	